

UTC Project Information	
Project Title	Phase II: Correlation Between Experimental And Finite Element Analysis Alaska Bridge 255- Chulitna River Bridge
University	University of Alaska Fairbanks
Principal Investigator	J. Leroy Hulseley
PI Contact Information	E-mail: jlhulseley@alaska.edu ; Phone: (907) 474-7816
Funding Source(s) and Amounts Provided (by each agency or organization)	
Total Project Cost	\$60000.00
Agency ID or Contract Number	DTRT12-G-UTC10
Start and End Dates	03/01/2012~07/31/2014
Brief Description of Research Project	<p>Based on the state-of-the-art structural health monitoring (SHM) knowledge and technologies with a specific interest in those which could be used on bridges in cold, remote regions, the objective of this study is to provide important information for structural condition assessment of the Chulitna River Bridge. Proposed SHM objectives are listed below and applicable to all bridges: (1) Develop a SHM protocol including preferred system integrator, software, instrumentation, and sensors suitable for Alaska's remote, harsh weather locations. (2) Develop criteria to incorporate SHM into the State's bridge management process. The established SHM system for the Alaska Department of Transportation and Public Facilities (ADOT&PF) will be able to monitor performance of bridges subjected to extreme temperature and conditions; an aspect that is very important information for assessment of the structural condition and potential remaining service life of Alaska bridges. This study will monitor the behavior of the Alaska Chulitna Bridge for the specific purpose of assisting the ADOT&PF in performing an accurate condition assessment of this bridge.</p>
Describe Implementation of Research Outcomes (or why not implemented)	
Place Any Photos Here	

Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links <ul style="list-style-type: none"> • Reports • Project website 	Phase II: Correlation Between Experimental and Finite Element Analysis Alaska Bridge 255- Chulitna River Bridge http://depts.washington.edu/pactrans/wp-content/uploads/2012/12/PacTrans-13-739439-Hulsey-J.-Leroy-Small-Project.pdf



U.S. Department of Transportation
Office of the Secretary of Transportation